

PAST AND FUTURE TRENDS USING ARIMA MODEL IN AREA, PRODUCTION AND PRODUCTIVITY OF ONION IN MADHYA PRADESH

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ABSTRACTS

Onion (Allium cepa) family alliaceae is one of the most important commercial vegetables. It is grown in western, northern as well as in southern India. Maharashtra, Gujarat, Uttar Pradesh, Orissa, Karnataka, Tamilnadu, Madhya Pradesh, Andhra Pradesh and Bihar are Major onion growing states in India. India stands 2nd position in Onion production after China in the World. In India, Gujarat stands 2nd position in Onion cultivation after Maharashtra state. The productivity of Onion is 12580kg/Ha all over the India while In Gujarat state, the productivity is highest 22120 kg/ha. In present study to meet the objective data covering the period of 1975-2011 was used. Onion is a cool season crop. However it can be grown under a wide range of climatic conditions. It grows well under mild climate without extreme heat or cold or excessive rainfall. Production behavior of onion, as visualized through area, production and yield follow mostly the cubic trend, thereby indicating more than one point of inflections. From the forecasted values (664.45 '000 MT), it can be said that in production of onion Madhya Pradesh will having decreasing trend. This forecast prevails for current market sentiments and monsoon and could vary with changes in the market situation

KEYWORDS: ARIMA, Forecasting, Instability, Modelling and Production

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